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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/759,372	01/16/2001	David F. Mchale	550-200	1910
7590 10/20/2004			EXAMINER	
NIXON & VANDERHYE P.C. 8th Floor 1 100 North Glebe Road Arlington, VA 22201			CHO, HONG SOL	
			ART UNIT	PAPER NUMBER
			2662	
			DATE MAILED: 10/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/759,372	MCHALE, DAVID F.				
Office Action Summary	Examiner	Art Unit				
	Hong Cho	2662				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 Cafter SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) days of the period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a on. s, a reply within the statutory minimum of thin period will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	·					
2a) ☐ This action is FINAL . 2b) ⊠	This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-17 is/are pending in the applic 4a) Of the above claim(s) is/are wit 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-4,7-10 and 15-17 is/are rejecte 7) ⊠ Claim(s) 5, 6, 11-14 is/are objected to. 8) □ Claim(s) are subject to restriction as	thdrawn from consideration.					
Application Papers						
9)⊠ The specification is objected to by the Exa 10)⊠ The drawing(s) filed on 16 January 2001 is Applicant may not request that any objection to Replacement drawing sheet(s) including the company of	s/are: a)⊠ accepted or b)⊡ c to the drawing(s) be held in abeyar orrection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies of the application from the International B * See the attached detailed Office action for the certified copies of the application from the International B	ments have been received. ments have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	Application No received in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94	4) Interview S	Summary (PTO-413) s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 10042004.		nformal Patent Application (PTO-152)				

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DETAILED ACTION

Specification

1. The specification is objected to because it contains an embedded hyperlink, which does not exist, on page 5, line 6. Applicant is required to delete the embedded hyperlink. See MPEP § 608.01.

For the purpose of clarity, "data element or data elements data items", "data link data items", "data slots or data buffer data items", and "at least one of the at least one channel" should be rephrased wherever appropriate.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-4, 7-10, and 15-17 are rejected under 35 U.S.C. 102(e) as being unpatentable over Vadivelu (U.S 6629001).

Re claims 1 and 15, Vadivelu discloses a controller controlling audio channels by sending and receiving digital data streams at predefined time slots in a data link (a controller controlling interfacing to a data link, the data link enabling data to be transferred in corresponding data slots, column 1, lines 35-37). Vadivelu discloses a channel logic

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circuit with an input FIFO to buffer input data (each channel comprising a data buffer for storing data items, column 4, lines 33-35). Vadivelu discloses a configuration register (control register) connected to the buffer in the demultiplexer to store configuration data (control data) (a control register associated with the data buffer and arranged to store control data, column 3, lines 48-50). Vadivelu discloses a configuration register controlling the demultiplexer with buffers that will be enabled by configuration data such as the buffer enable signal (the control data being settable to define for which data element or data elements are to be stored in that data buffer, column 5, lines 35-39). Vadivelu discloses a controller controlling data transfer between audio channels and time slots by the control data (column 1, lines 35-38; column 5, lines 19-21). Re claims 2, 3, 16, and 17, Vadivelu discloses steering the channel outputs from the channel logical circuits to any of the audio channels as selected by the corresponding select field in the configuration registers, storing data to the enabled input FIFO buffer (data buffer of the channel is arranged to store data items relating to one or more data items as specified by the control data, column 5, lines 26-36), and generating data to the data steering circuit (transmitting data retrieved from the data buffer to the data slots of the data link, column 6, lines 2-7).

Re claims 4 and 8, Vadivelu discloses a channel logic circuit with configuration registers (figure 2) and an input FIFO as a queue to buffer input data received from the audio channels (to store data items to be transmitted on the data link, column 4, lines 33-35) and an output FIFO as a queue to buffer output data to be sent to the audio channels (to store data items received from the data link, column 4, lines 26-28).

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Re claim 7, Vadivelu discloses a controller connected to the codec via the data link (column 3, lines 21-22).

Re claims 9 and 10, Vadivelu discloses a controller coupled to the system memory with data (figure 1, element 130) via a processor (figure 1, element 105). It is inherent that data will be transferred between the memory and the channel.

Allowable Subject Matter

4. Claims 5, 6, and 11-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - US Patent (6529975) to Miller et al discloses addressing and controlling expansion devices through an AC-link and a codec
 - US Patent (6434633) to Braun et al discloses facilitating AC-link communications between a controller and a slow peripheral of a codec
 - US Patent (5974480) to Qureshi et al discloses DMA controller which receives size data for each DMA channel

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Cho whose telephone number is 571-272-3087. The examiner can normally be reached on Mon-Fri during 7 am to 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3088.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hong Cho Patent Examiner 10-04-2004

PRIMARY EXAMINER